Aug. 21, 1923. 1,465,895

R. R. DANIELS

SWIVEL HOOK FOR JACKS

Filed March 14, 1922

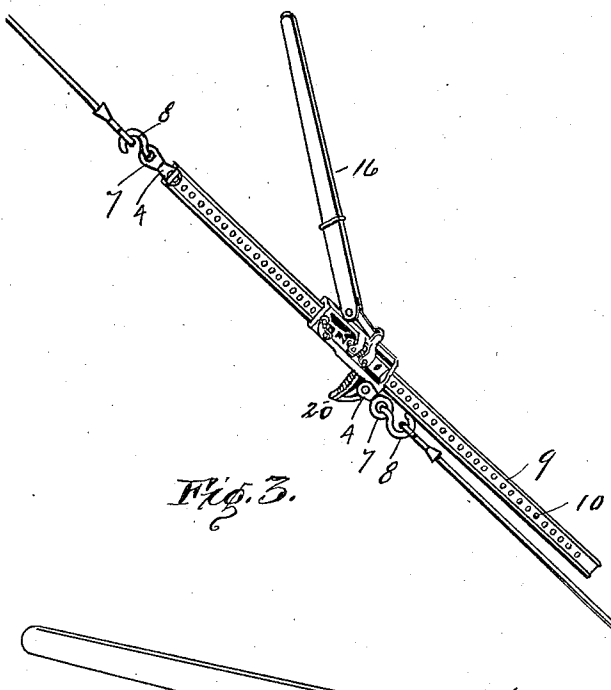


Fig. 3.

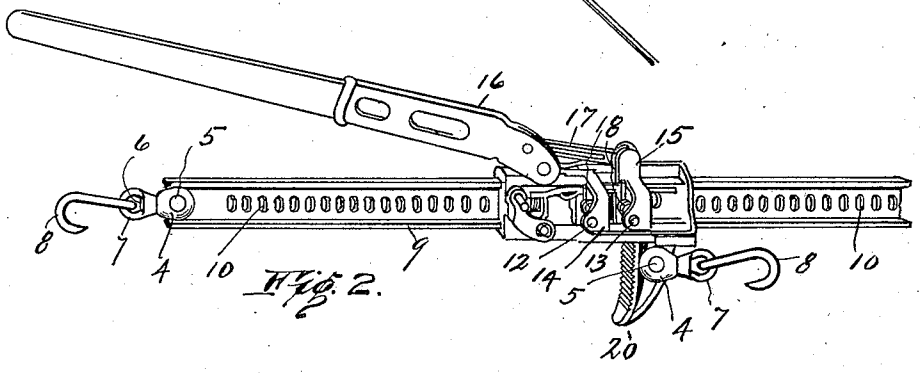


Fig. 2.

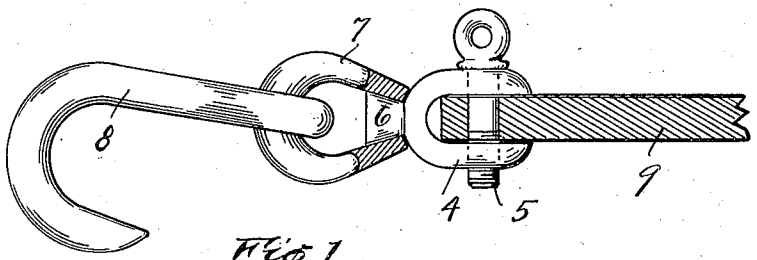


Fig. 1.

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UNITED STATES PATENT OFFICE.

ROY R. DANIELS, OF INDIANAPOLIS, INDIANA.

SWIVEL HOOK FOR JACKS.

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To all whom it may concern:

Be it known that I, ROY R. DANIELS, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented new and useful Improvements in Swivel Hooks for Jacks, of which the following is a specification.

This invention relates to means for utilizing the power of a lifting jack for pulling any kind of guy wires attached to poles or anchors, for pulling aerial and underground cables, in their installation or afterwards to tighten them, for pulling cables or wires through shafts, riser pipes, or conduits wherever located, and as a general substitute for a block and tackle, and the object of the invention is to provide a swivel attachment that will allow of a cable or line being pulled upon to twist and rotate without rotating the jack and thereby changing the position of the handle.

I accomplish the above, and other objects which will hereinafter appear, by the mechanism illustrated in the accompanying drawing, in which—

Fig. 1 is a side elevation and partial section of my swivel attachment. Fig. 2, is a perspective view of a jack with my swivel attachment applied to it, and Fig. 3, shows a jack with my attachments, in the operation of tightening a guy line.

Like characters of reference indicate like parts in the several views of the drawing.

My invention consists essentially of a clevis 4, adapted to receive a jack-member which is secured by bolt or pin 5. The clevis has an outside lug 6 to which a link 7 is swivelly attached, and to the link an eye of a hook 8 is linked in the usual manner. A pair of the above described devices is used with a lifting jack of any usual and suitable construction, the embodiment illustrated here having a standard 9, with a longitudinal series of holes 10, for the engagement of timing-pins 12 and 13 carried by runners 14 and 15, respectively mounted on the standard. A lever 16 is pivoted to the runners 14 and has a pitman 17 which is pivotally connected with the runner 15 whereby the two runners may be moved relative to each other on the standard 9. The pins 12 and 13 are pressed into the holes 10 of the standard by springs 18, wrapped around them, and are caused by a dog mechanism, not shown, to alternately engage the holes 10 by the operation of lever 16, to cause the runners to move longitudinally of standard 9.

The runner 15 has a foot extension 20, with a hole through it in which the pin 5 of the clevis 4 of one of my attachments is passed to fasten the clevis to said foot extension in the manner shown in Figs. 2 and 3. The second one of the pair of attachments has a clevis embracing the end of the standard 9. The standard 9 has a hole near its end through which the pin 5 is passed to secure the clevis to the standard, in the manner shown in the drawings and the standard is I-shape in cross section, not only to stiffen the standard but to provide a pair of edge-flanges on each side to limit the arc of movement of the clevis on its pivot pin, thereby holding the device in better position of its said swinging members during adjustment and when not stressed. The hooks 8 are engaged in eyes of the guy line to be tightened, or with any suitable holding part of the thing to be pulled, depending upon the shape of the article to which the attachment is to be made, and other conditions.

The operation is so obvious that further description is believed to be unnecessary, it being observed that the swivel-joints allow for torsional movement of cables or the like under pulling stress without rotating the jack.

Having thus fully described my invention, what I claim as new and wish to secure by Letters Patent of the United States, is—

1. In a device for the purposes specified, a jack-standard, each side of which has a flange along each edge, a runner slidable on the standard and having a foot extension, power multiplying means for manually sliding the runner on the standard, a clevis for attachment to the standard, or foot between the edge-flanges on each side, a hook, and means comprising a link and a swivel-joint for connecting the clevis and hook.

2. The combination with a lifting-jack standard having a flange along each edge on each side and an end-hole between each side pair of flanges, and a runner slidable on the standard having a foot extension with a hole through it, of a clevis embracing the standard with a close swinging fit between the

edge-flanges limited in its arc by said flanges, a pivot-pin through the clevis and hole in the standard, a clevis receiving the foot extension in like manner, a pivot-pin through the clevis and the hole in the foot, each of said clevises having an outside lug, a link for each clevis swivelly mounted on the respective clevis lugs, and a hook for each link having an eye through which the link passes.

Signed at Indianapolis, Indiana, this the 4th day of March, 1922.

ROY R. DANIELS.